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Beth Pearson-Naul**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****OFFICIAL**

APPLICANT: Paul G. Cairns et al. § Group Art Unit: 3672

SERIAL NO.: 10/629,268 §

FILED: July 29, 2003 §

TITLE: "Measurement-While-Drilling  
Assembly Using Real-Time  
Toolface Oriented Measurements" §

Examiner: TSAY, FRANK

Confirmation No.: 6684

Atty Docket No.: 414-29494-US

**PRELIMINARY AMENDMENT**

Before any substantive action on this application, please amend the application as indicated. Amendments to the specifications start on page 2 of this document.

Amendments to the claims start on page 3 of this document.

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